

School of Practical Science,

PROVINCE OF ONTARIO.

(AFFILIATED TO THE UNIVERSITY OF TORONTO.)

CLASS LIST

1896.



TORONTO:

WARWICK BRO'S & RUTTER, PRINTERS, BOOKBINDERS, ETC., FRONT ST. W.
1896.

FACULTY OF THE SCHOOL.

J. GALBRAITH, M.A., M. CAN. SOC. C. E., PRINCIPAL.

MEMBERS OF THE COUNCIL.

J. GALBRAITH, M.A., M. CAN. SOC. C. E. *Professor of Engineering (Chairman).*
W. H. ELLIS, M.A., M.B. *Professor of Applied Chemistry.*
A. P. COLEMAN, M.A., PH.D. *Professor of Assaying and Metallurgy.*
I. B. STEWART, O.L.S., D.T.S. *Lecturer in Surveying (Secretary).*
C. H. C. WRIGHT, B.A. SC. *Lecturer in Architecture.*
T. R. ROSEBRUGH, M.A. GRAD. S.P.S. *Lecturer in Electrical Engineering.*
J. A. DUFF, B.A. GRAD. S.P.S. *Lecturer in Applied Mechanics.*
G. R. MICKLE, B.A. GRAD. S.P.S. *Lecturer in Mining Engineering.*

ASSISTANT INSTRUCTORS.

W. E. BOUSTEAD, B.A. SC. *Acting Demonstrator in Metallurgy and Assaying.*
J. KEELE, B.A. SC. *Fellow in Civil Engineering.*
W. MINTY, B.A. SC. *Fellow in Mechanical Engineering.*
A. E. BLACKWOOD, GRAD. S.P.S. *Fellow in Electrical Engineering.*
A. T. LAING, B.A. SC. *Fellow in Surveying.*
W. LAWSON, B.A. SC. *Fellow in Analytical and Applied Chemistry.*

MEMBERS OF THE FACULTY OF THE UNIVERSITY OF TORONTO WHOSE CLASSES ARE ATTENDED BY THE REGULAR STUDENTS OF THE SCHOOL.

JAMES LOUDON, M.A. *President and Professor of Physics.*
R. RAMSAY WRIGHT, M.A., B. SC. *Professor of Biology.*
W. H. PIKE, M.A., PH.D. *Professor of Chemistry.*
ALFRED BAKER, M.A. *Professor of Mathematics.*
A. B. MACALLUM, B.A., M.B., PH.D. *Professor of Physiology.*
W. J. LOUDON, B.A. *Demonstrator in Physics.*
C. A. CHANT, B.A. *Lecturer in Physics.*
J. C. McLENNAN, B.A. *Assistant Demonstrator in Physics.*
ALFRED T. DeLURY, B.A. *Lecturer in Mathematics.*
W. L. MILLAR, B.A., PH.D. *Demonstrator in Chemistry.*
W. J. RUSK, B.A. *Fellow in Mathematics.*



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SCHOOL OF PRACTICAL SCIENCE,

TORONTO.

(AFFILIATED TO THE UNIVERSITY OF TORONTO.)

RESULTS OF ANNUAL EXAMINATIONS,

SESSION 1895-96.

DEPARTMENTS.

CIVIL ENGINEERING (INCLUDING SANITARY ENGINEERING).

MINING ENGINEERING.

MECHANICAL AND ELECTRICAL ENGINEERING.

ARCHITECTURE.

ANALYTICAL AND APPLIED CHEMISTRY.

DEGREES.

BACHELOR OF APPLIED SCIENCE (B.A.Sc.)

CIVIL ENGINEER (C.E.)

MINING ENGINEER (M.E.)

MECHANICAL ENGINEER (M.E.)

ELECTRICAL ENGINEER (E.E.)

Candidates are arranged alphabetically in the Departments and in the 4th or Post-Graduate year, in two classes, Honor and Pass.

1896.

DEPARTMENT OF CIVIL ENGINEERING.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR
Bray, L. T. Grant, W. F. Gzowski, C. S. Kormann, J. S. McNaughton, F. D. Perry, F. N. Shaw, J. H. Smith, R. Willson, R. D. Stovel, H. R.	Carpenter, H. S. Proudfoot, H. W. Weekes, M. Weldon, E. A.	Laing, W. F. Martin, T.

DEPARTMENT OF MINING ENGINEERING.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
	Bow, J. A. Robinson, A. H. Stull, W. W.	Bain, J. W.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Carter W. E. Lea, E. P.	Andrewes, E.	Burwash, L. T. De Cew, J. A.

DEPARTMENT OF MECHANICAL AND ELECTRICAL ENGINEERING.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Barber, T. Darling, E. H. Smallpiece, F. C. Shipley, A. E. Williamson, D. A. Wilkinson, T. A.	Gray, A. T. Richards, E. Vercœ, H. L.	Campbell, G. M. Elliott, H. P. Haight, H. V.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Berwick, J. R. Boyd, W. H. Collins, C. D. Gordon, C. B. Little, F. McMichael, C.	Alexander, F. H. Bain, J. A. Hicks, W. A. B. Morrison, H. Smiley, R. Stacey, G. E.	Gurney, W. C. Lawrie, R. R. Macbeth, C. MacMurchy, J. A. Shipe, R. R.

DEPARTMENT OF ARCHITECTURE.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Mackintosh, D.		

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
	King, C. F. Scott, W. F.	

PRIZEMAN.

FIRST YEAR —D. Mackintosh.

The above prize is the gift of Mr. D. B. Dick, Architect, Toronto, and is awarded for general proficiency in the 1st year.

DEPARTMENT OF ANALYTICAL AND APPLIED CHEMISTRY.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
	Charlton, H. W.	

SPECIAL CERTIFICATES.

Mining and Metallurgy—

Johnson, G.

Tye, A. T.

Electricity—

Sifton, E. I.

STANDING IN SUBJECTS.

I. YEAR.

DRAWING.	FIELD NOTES.	CONSTRUCTION NOTES.
McNaughton, F. D. Wilkinson, T. A. Kormann, J. S. Gzowski, C. S. Williamson, D. A. Carter, W. E. Mackintosh, D. Lea, E. P. Collins, C. D. Darling, E. H. Willson, R. D. McMichael, C. Grant, W. F. Berwick, J. R. Æq. { Barber, T. Stovel, H. R. Smallpiece, F. C. Boyd, W. H. Shaw, J. H. Smith, R. Bray, L. T. Shipley, A. E. Perry, F. N. Little, F. Gordon, C. B.	Willson. Mackintosh. McNaughton. Gzowski. Kormann. Lea. Smith. Æq. { Bray. Grant. Carter. Shaw. Perry.	Wilkinson. Collins. Darling. Shipley. Williamson. Gordon. Smallpiece. Barber. Berwick. McMichael. Boyd, W. H. Little.

I. YEAR.

EXPERIMENTAL PHYSICS.	PRACTICAL CHEMISTRY.	ALGEBRA.
Williamson. Collins. Berwick. Little. Smallpiece. Darling. Wilkinson. Shingley. Barber. McMichael. Gordon. Boyd, W. H. Stovel.	$\text{\AEq.} \left\{ \begin{array}{l} \text{McNaughton.} \\ \text{Smallpiece.} \\ \text{Williamson.} \\ \text{Shingley.} \\ \text{Barber.} \\ \text{Berwick.} \end{array} \right.$ $\text{\AEq.} \left\{ \begin{array}{l} \text{Grant.} \\ \text{Smith.} \\ \text{Wilkinson.} \\ \text{Gordon.} \\ \text{Willson.} \end{array} \right.$ $\text{\AEq.} \left\{ \begin{array}{l} \text{Darling.} \\ \text{Lea.} \\ \text{Stovel.} \end{array} \right.$ $\text{\AEq.} \left\{ \begin{array}{l} \text{Carter.} \\ \text{Kormann.} \\ \text{Mackintosh.} \end{array} \right.$ $\text{\AEq.} \left\{ \begin{array}{l} \text{Boyd, W. H.} \\ \text{Collins.} \\ \text{Little.} \end{array} \right.$ $\text{\AEq.} \left\{ \begin{array}{l} \text{Bray.} \\ \text{McMichael.} \\ \text{Shaw.} \\ \text{Gzowski.} \\ \text{Perry.} \end{array} \right.$	Williamson. Smallpiece. Darling. $\text{\AEq.} \left\{ \begin{array}{l} \text{Grant.} \\ \text{Perry.} \\ \text{Stovel.} \\ \text{Shingley.} \end{array} \right.$ $\text{\AEq.} \left\{ \begin{array}{l} \text{Mackintosh.} \\ \text{Carter.} \\ \text{Barber.} \\ \text{Shaw.} \\ \text{Smith.} \\ \text{Wilkinson.} \\ \text{Bray.} \\ \text{Kormann.} \\ \text{Willson.} \\ \text{Boyd, W. H.} \\ \text{McNaughton.} \\ \text{Berwick.} \\ \text{Gordon.} \end{array} \right.$ $\text{\AEq.} \left\{ \begin{array}{l} \text{Collins.} \\ \text{Lea.} \\ \text{McMichael.} \end{array} \right.$

I. YEAR.

EUCLID.	PLANE TRIGONOMETRY.	ANALYTICAL GEOMETRY.
Carter. Æq. { Grant. Smallpiece. Æq. { Darling. Perry. Williamson. Wilkinson. Æq. { Smith. Shiple. Kormann. McNaughton. Æq. { Barber. Bray. Shaw. Stovel. Mackintosh. Willson. Gordon. Boyd, W. H. McMichael. Lea. Collins. Berwick. Little. Gzowski.	Williamson. Smith. Smallpiece. Willson. Wilkinson. Perry. Barber. McNaughton. Shiple. Mackintosh. Stovel. Carter. Berwick. Grant. Darling. Kormann. Shaw. Bray. Gzowski. Lea. Little. Gordon. Boyd. Collins.	Williamson. Wilkinson. Smallpiece. Grant. McNaughton. Kormann. Mackintosh. Darling. Smith. Carter. Boyd, W. H. Shaw. Bray. Barber. Perry. Æq. { Shipley. Stovel.

I. YEAR.

ELEMENTARY CHEMISTRY.	DESCRIPTIVE GEOMETRY.	STATICS.
Williamson. Barber. Æq. { Darling. Shipley. Æq. { Smallpiece. Smith. Æq. { Carter. Stovel. Grant. McNaughton. Æq. { Wilkinson. Willson. Shaw. Gordon. Æq. { Lea. Mackintosh. Perry. Berwick. Kormann. Gzowski. Boyd, W. H. McMichael. Little. Bray. Collins.	Darling. Mackintosh. Smallpiece. Williamson. Æq. { Shaw. Shipley. Perry. Æq. { Kormann. Carter. Smith. Barber. Grant. Wilkinson. McNaughton. Æq. { Bray. Berwick. Willson. Collins. Little. Æq. { Boyd, W. H. McMichael. Gzowski.	Darling. Williamson. Barber. Shaw. Æq. { Wilkinson. Shipley. Smallpiece. Æq. { Stovel. Mackintosh. Æq. { Willson. McNaughton. Grant. Kormann. Æq. { Lea. Carter. Perry. Smith. Æq. { Boyd, W. H. Gzowski. McMichael. Berwick. Gordon. Little. Collins.

I. YEAR.

DYNAMICS.	SURVEYING.	MAGNETISM AND ELECTRICITY.
Darling. Wilkinson. Shipley. Barber. Smith. Smallpiece. Shaw. Williamson. Perry. Stovel. Mackintosh. Æq. { Lea. Grant. Æq. { Willson. Carter. Kormann. McNaughton. Berwick. Æq. { Little. Gzowski. Gordon. Collins. McMichael.	Wilkinson. Darling. Smith. Perry. Smallpiece. Williamson. Grant. Carter. Æq. { Stovel. Mackintosh. Shaw. Barber. Willson. Æq. { Kormann. McNaughton. Lea. Æq. { Little. McMichael. Shipley. Bray. Gzowski. Gordon.	Wilkinson. Darling. Williamson. Barber. Smallpiece. Shipley. Gordon. Æq. { Little. McMichael. Berwick. Boyd, W. H. Collins.

ELECTRICITY.	ACCOUSTICS.	HISTORY OF ARCHITECTURE.
Wilkinson. Smallpiece. Shipley. Williamson. Barber. Darling. Æq. { Berwick. Charlton. Gordon. Collins. Little. Boyd, W. H.	Mackintosh.	Mackintosh.

II. YEAR.

DRAWING.	FIELD NOTES, CIVIL AND MINING ENGINEERING AND ARCHITECTURE.	CONSTRUCTION NOTES, MECHANICAL EN- GINEERING.
Smillie, K. Æq. { Scott, W. F. Vercoe, H. L. Bow, J. A. Hicks, W. A. B. Gray, A. T. Æq. { Bain, J. A. King, C. F. Robinson, A. H. Richards, E. Weekes, M. Stacey, G. E. Morrison, H. Stull, W. W. Alexander, F. Carpenter, H. S. Andrewes, E. Proudfoot, H. W. Weldon, E. A.	Scott. Bow. Proudfoot. Stull. King. Robinson. Andrewes. Æq. { Weekes. Carpenter. Weldon.	Gray. Smillie. Bain. Hicks. Richards. Stacey. Vercoe. Æq. { Alexander. Morrison.

THESIS.	EXPERIMENTAL PHYSICS, CIVIL AND MINING ENGINEERING AND ARCHITECTURE.*	EXPERIMENTAL PHYSICS, MECHANICAL ENGINEER- ING AND APPLIED CHEMISTRY.
Gray. Bow. Hicks. Æq. { Robinson. Charlton. Stull. Smillie. Weldon. Æq. { Scott. Morrison. Weekes. Æq. { Richards. Vercoe. Carpenter. Bain. Æq. { Alexander. Andrewes. Æq. { Proudfoot. Stacey. King.	Æq. { Bow. Stull. Scott. Carpenter. Proudfoot. Andrewes. Weldon. Weekes. Robinson.	Æq. { Alexander. Bain. Charlton, H. W. Gray. Hicks. Morrison. Richards. Smillie. Stacey. Vercoe.

* King passed in this subject last year.

II. YEAP.

PRACTICAL ELECTRICITY, MECHANICAL ENGINEERING.	PRACTICAL CHEMISTRY.	PRACTICAL MINERALOGY.
Vercoe. Hicks. Stacey. Gray. Bain. Richards. Smillie. Morrison. Alexander.	Vercoe. Charlton. Æq. { Bain. Weekes. Alexander. Bow. Æq. { Robinson. Stull. Richards. Gray. Æq. { Stacey. Smillie. Æq. { Morrison. Proudfoot. Weldon. Æq. { Carpenter. King. Andrewes. Hicks. Scott.	Robinson. Carpenter. Stull. Bow. Weekes. Charlton. Andrewes. Weldon.

APPLIED CHEMISTRY.	CALCULUS.	HYDROSTATICS.
Richards. Bow. Gray. Vercoe. Æq. { Stull. Weekes. Æq. { Weldon. Carpenter. Æq. { Bain. Stacey. Charlton. Andrewes. Æq. { Scott. Robinson. Proudfoot. Smillie. Æq. { Alexander. Morrison. Æq. { Hicks. King.	Bow. Robinson. Vercoe. Richards. Æq. { Bain. Proudfoot. Gray. Weekes. Stull. Andrewes. Scott. Æq. { Alexander. Smillie. Æq. { Carpenter. Hicks. Stacey.	Weekes. Robinson. Stull. Vercoe. Æq. { Proudfoot. Richards. Gray. Smillie. Bow. Æq. { Bain. Morrison. Carpenter. Charlton. Æq. { Andrewes. Hicks. Stacey. Weldon. Æq. { King. Scott. Alexander.

II. YEAR.

OPTICS.	STRENGTH OF MATERIALS.	RIGID DYNAMICS.
Bow. Proudfoot. Richards. Robinson. Stull. Weekes. Gray. Bain. Vercoe. Smillie. Charlton. King. Morrison. Carpenter. Æq. { Alexander. Scott. Æq. { Andrews. Hicks. Weldon. Stacey.	Richards. Vercoe. Robinson. Bow. Gray. Proudfoot. Weekes. Æq. { Andrewes. Smillie. Bain. Stull. Stacey. Hicks. Alexander.	Vercoe. Smillie. Bow. Æq. { Gray. Weekes. Bain. Robinson. Stull. Proudfoot. Richards. Andrewes. Stacey. Carpenter. Weldon. Hicks. Morrison.

DESCRIPTIVE GEOMETRY.	SPHERICAL TRIGONOMETRY.	SURVEYING.
Bow. Proudfoot. Robinson. Gray. Andrewes. Æq. { Stull. Weekes. Weldon. Vercoe. Æq. { Hicks. Scott. Æq { Carpenter. Stacey. Æq. { Bain. King. Smillie. Morrison. Richards.	Gray. Proudfoot. Bow. Stull. Æq. { Robinson. Vercoe. Richards. Carpenter. Smillie. Weekes. Hicks. Bain. Andrews. Morrison. Alexander. Weldon. Stacey.	Bow. Scott. Stull. Proudfoot. King. Carpenter. Robinson. Æq. { Weldon. Andrews. Weekes.

II. YEAR.

ASTRONOMY.	METALLURGY.	MINERALOGY AND GEOLOGY.
Proudfoot. Carpenter. Weldon. Weekes.	Robinson. Æq. { Bow. Richards. Weekes. Æq { Stull. Carpenter. Charlton. Stacey. Vercoc. Proudfoot. Gray. Scott. Bain. Hicks. King. Andrewes. Alexander. Weldon. Smillie. Morrison.	Bow. Æq. { Robinson. Stull. Proudfoot. Carpenter. Æq. { Charlton. Weldon. Andrewes. Æq. { Scott. King.

LITHOLOGY.	ELECTRICITY.	THEORY OF MECHANISM.
Robinson. Stull. Bow. Andrewes.	Gray. Richards. Vercoc. Morrison. Bain. Stacey. Hicks. Smillie. Alexander.	Gray. Vercoc. Æq. { Bain. Richards. Stacey. Hicks. Morrison. Smillie. Alexander.

II. YEAR.

HISTORY OF ARCHITECTURE.	ORDERS OF ARCHITECTURE.	HISTORY OF ORNAMENT.
Scott. King.	Scott. King.	Scott. King.

INORGANIC CHEMISTRY.	HEAT.	PHYSICAL CHEMISTRY.
Charlton.	Charlton.	Charlton.

III. YEAR.

DRAWING.	THESIS.	CONSTRUCTION NOTES.
Haight, H. V. Shipe, R. R. Bain, J. W. Campbell, G. M. Laing, W. F. Lawrie, R. R. Martin, T. DeCew, J. A. MacMurchy, J. A. Elliott, H. P. Macbeth, C. Burwash, L. T. Gurney, W. C.	Elliott. Campbell. DeCew. Æq. { Bain. Haight. Shipe. MacMurchy. Æq. { Lawrie. Macbeth. Gurney. Martin. Æq. { Burwash. Laing.	Campbell. Shipe. Elliott. Æq. { DeCew. Lawrie. Bain. Martin. Æq. { Haight. Laing. Macbeth. MacMurchy. Æq. { Burwash. Gurney.

III. YEAR.

FIELD NOTES.	EXPERIMENTAL PHYSICS	PRACTICAL MINERALOGY.
Bain. DeCew. Martin. Laing. Burwash.	Elliott. Haight. Campbell Æq. { Laing. Lawrie. Martin. Gurney. Shipe. MacMurchy. Sifton. Macbeth.	Bain. Burwash. DeCew. Æq. { Laing. Martin.
PRACTICAL ELECTRICITY.	PRACTICAL CHEMISTRY.	APPLIED CHEMISTRY.
Æq. { Elliott. Haight. Campbell. Æq. { MacMurchy. Lawrie. Æq. { Shipe. Sifton. Gurney. Macbeth.	Bain. DeCew. Burwash.	Bain. Campbell. Elliott. Gurney. Haight. Burwash. DeCew. Laing. Martin. Macbeth. MacMurchy. Shipe. Lawrie.
DESCRIPTIVE GEOMETRY.	THERMODYNAMICS.	HYDRAULICS.
Campbell. Haight. Elliott. Bain. Laing. Shipe. Burwash. DeCew. Gurney. Æq. { Martin. Lawrie. Æq. { Macbeth. MacMurchy.	Haight. Bain. Campbell. Elliott. DeCew. Martin. Laing. Gurney. Macbeth. Lawrie. Æq. { MacMurchy. Shipe. Sifton. Burwash.	Elliott. Bain. Haight. Gurney. DeCew. Martin. Macbeth. Æq. { Laing. Shipe. Æq. { Lawrie. Campbell. MacMurchy. Burwash.

III. YEAR.

THEORY OF CONSTRUCTION.	CONSTRUCTION DESIGN, CIVIL ENGINEERING.	METHOD OF LEAST SQUARES.
Haight. Campbell. Elliott. Laing. Martin. Bain. DeCew. Gurney. Lawrie. Shipe. Æq. { MacMurchy. Macbeth. Burwash.	Laing. Martin.	Æq. { Campbell. Haight. Martin. Laing. Macbeth. MacMurchy. Gurney. Elliott. Lawrie. Shipe.
THEORY OF COMPOUND STRESS.	SURVEYING AND LEVELLING.	PRACTICAL ASTRONOMY AND GEODESY.
Haight. Campbell. Elliott. Gurney. Laing. Macbeth. MacMurchy. Martin. Shipe. Lawrie.	Bain. Martin. Laing. Burwrsh. DeCew.	Laing. Martin.
ELECTRICITY.	MECHANICS OF MACHINERY.	MACHINE DESIGN.
Campbell. Haight. Elliott. Lawrie. Æq. { Shipe. Gurney. Sifton. Macbeth. MacMurchy.	Haight. Elliott. Campbell. MacMurchy. Gurney. Shipe. Macbeth. Lawrie.	Campbell. Haight. Elliott. Gurney. MacMurchy. Macbeth. Shipe. Lawrie.

III. YEAR.

METALLURGY.	MINERALOGY AND GEOLOGY.	MINING AND ORE DRESSING.
Bain. Tye. Haight. DeCew. Eq. { Campbell. Elliott. Gurney. Lawrie. Johnson. Macbeth. MacMurchy. Shipe. Burwash.	Bain Tye. Laing. DeCew. Johnson. Martin. Burwash.	Bain. DeCew. Burwash.
ASSAYING.		
Bain. De Cew. Burwash.		

Sifton, E. I., passed special examinations in Theoretical and Practical Electricity.

Tye, A. T., and Johnson, G., passed special examinations in Mineralogy, Geology, Petrography, Metallurgy and Assaying.

FOURTH OR POST-GRADUATE YEAR.

Degree of Bachelor of Applied Science (B.A.Sc.)

UNIVERSITY OF TORONTO.

SCHOOL OF PRACTICAL SCIENCE CERTIFICATE.	THESIS.	THERMODYNAMICS.
<i>Honors.</i> Armstrong, J. Brodie, W. M. Mines, W. McGowan, J. McKinnon, H. L.	<i>Honors.</i> Dobie, J. S. Mines, W. McGowan, J. McKinnon, H. L. Tremaine, R. C. C.	<i>Honors.</i> Brodie, W. M. <i>Pass.</i> Hull, H. S. Mines, W. McGowan, J. McKinnon, H. L. Tremaine, R. C. C.
<i>Pass.</i> Boswell, E. J. Dobie, J. S. Hull, H. S. Macallum, A. F. Tremaine, R. C. C.	<i>Pass.</i> Armstrong, J. Boswell, E. J. Brodie, W. M. Hull, H. S. Macallum, A. F.	

HYDRAULICS.	STRENGTH AND ELASTICITY OF MATERIALS.	ELECTRICITY.
<i>Honors.</i> McGowan, J.	<i>Honors.</i> Armstrong, J. Dobie, J. S.	<i>Honors.</i> McKinnon, H. L.
<i>Pass.</i> Armstrong, J. Dobie, J. S. Mines, W.	<i>Pass.</i> Boswell, E. J. Macallum, A. F.	<i>Pass.</i> Brodie, W. M. Hull, H. S. Tremaine, R. C. C.

DEGREE OF B. A. Sc

Honors.

McGowan, J.
McKinnon, H L.

Pass.

Armstrong, J.
Brodie, W. M.
Dobie, J. S.
Hull, H. S.
Mines, W.
Tremaine, R. C. C.

DEGREE OF C. E.

Moore, J. E. A.

DEGREE OF E. E.

Ross, R. A

SUPPLEMENTAL EXAMINATIONS PASSED.

FIRST YEAR SUBJECTS.

Descriptive Geometry.—Weldon, Alexander.
Algebra.—Charlton.
Electricity.—Charlton.
Statics.—Bain, J. A.
Elementary Chemistry.—King, Lawrie, Weldon.
Dynamics.—Alexander.

SECOND YEAR SUBJECTS.

Applied Chemistry.—Martin, Macbeth.
Strength of Materials.—DeCew, Lawrie, MacMurchy.
Metallurgy.—Martin.
Spherical Trigonometry.—Burwash.
Construction Notes.—Burwash.
Rigid Dynamics.—DeCew.
Calculus.—Bain.

SUPPLEMENTAL EXAMINATIONS TO BE TAKEN.

FIRST YEAR SUBJECTS.

Statics.—Bray.
Dynamics.—Bray, Boyd.
Algebra.—Gzowski, Little.
Analytical Geometry.—Gzowski, Lea, Berwick, Collins, Gordon, Little, McMichael, Willson.
Descriptive Geometry.—Stovel, Lea, Gordon.
Surveying.—Berwick, Boyd, Collins.
Plane Trigonometry.—McMichael.

SECOND YEAR SUBJECTS.

Strength of Materials.—Carpenter, Weldon, Morrison, King, Scott.
Practical Mineralogy.—Proudfoot.
Mineralogy and Geology.—Weekes.
Calculus.—Weldon, Morrison, King.
Descriptive Geometry.—Alexander.
Rigid Dynamics.—Alexander.

FOURTH YEAR SUBJECTS.

Hydraulics.—Boswell, E. J., Macallum, A. F.